JSCBIS System Architecture – Hardware/LAN

JSCBIS Server

Listeners

Cold Fusion

Microsoft IIS

Data Storage

Microsoft SQL Server

WEB Repository

Edgewood LAN/Firewall

Main Internet

HTTPS   HTTPS   HTTPS

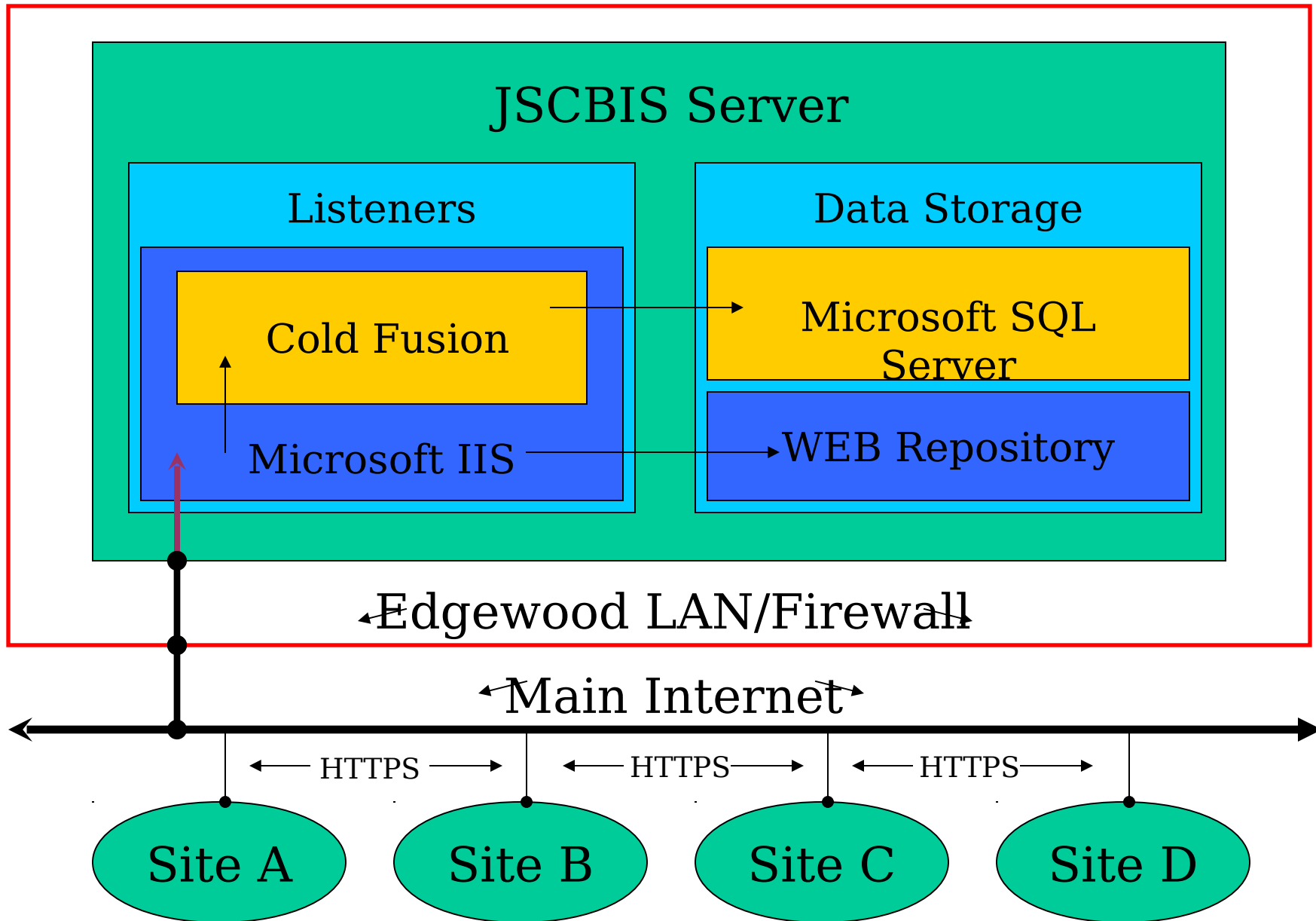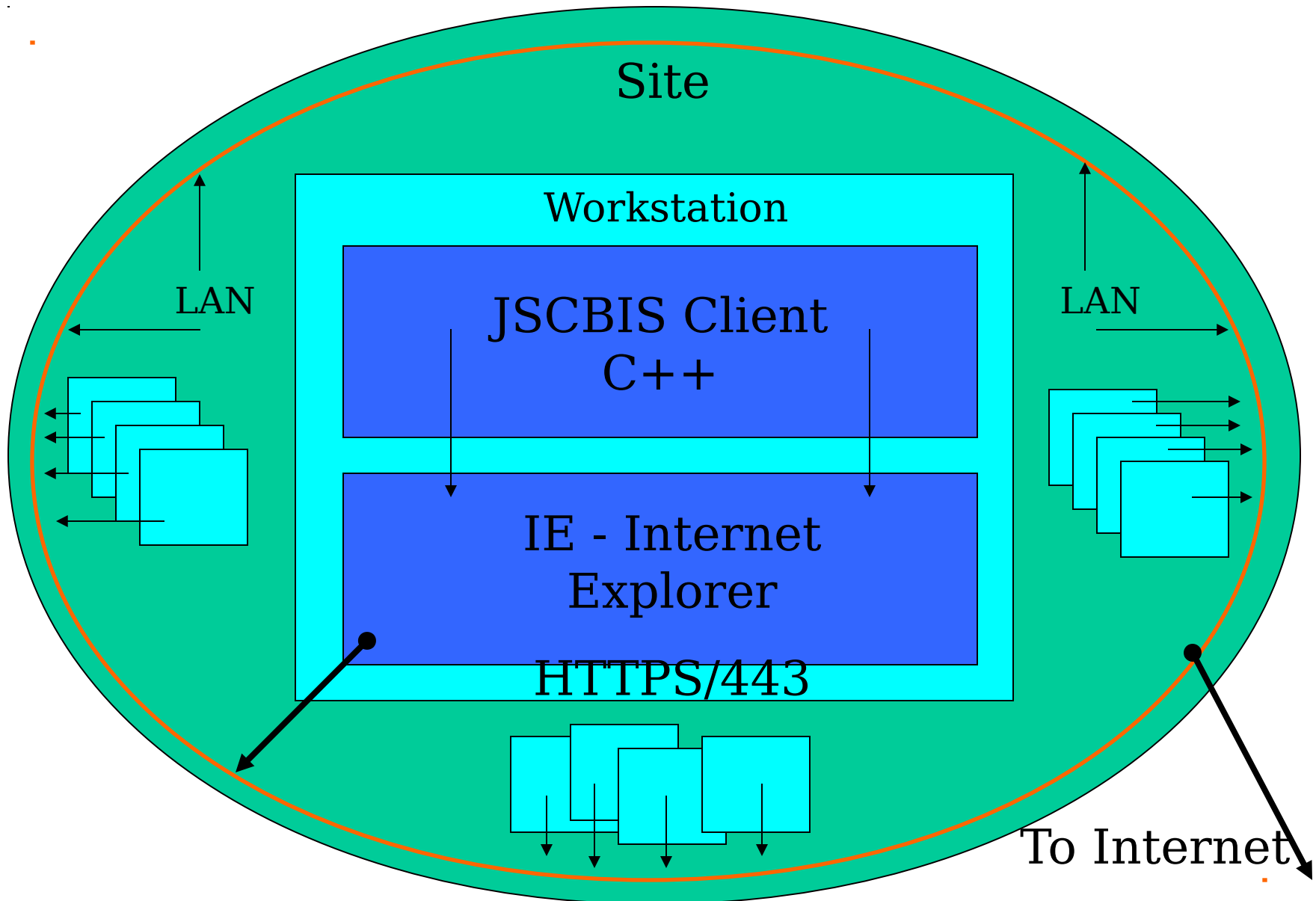Site A   Site B   Site C   Site D

JSCBIS System Architecture – Hardware/LAN

- The JSCIS WEB/Server and MS SQL-Server reside on one server at the Edgewood reservation under the control of PAI&O/CIO.
- The Edgewood internal LAN is fire-walled and only allows secure HTTP/443 protocol between the JSCBIS server and remote clients.
- JSCBIS uses Microsoft IIS as the main listener for all application access. IIS is PKI ready.
- JSCBIS uses Macromedia Cold Fusion as a secondary listener to communicate with the MS SQL-Server database.
- All communication between the remote client and the JSCBIS Server is WEB-Based HTTS.

JSCBIS System Architecture – Client/Software

Site

Workstation

JSCBIS Client
C++

IE - Internet
Explorer

HTTPS/443

LAN

LAN

To Internet

JSCBIS System Architecture – Client/Software

- The JSCBIS Client software is built using Microsoft C++.

- The client requires no special installation. A download of one file into a user created folder will get JSCBIS going.

- The client software uses a Microsoft Internet Explorer WEB browser to communicate with the JSCBIS WEB server and database.

- All communication between the client and server is WEB based HTTS.

- The Client interface also uses basic HTML pages developed with Macromedia Cold Fusion.

- JSCBIS uses XML to generate some graphs and spreadsheet based output.